

A09-0022



***National
Environmental
Achievement Track***

Application Form

Philips Semiconductors

Name of facility

Philips Semiconductors

Name of parent company (if any)

811 East Arques Avenue

Street address

street address

Street address (continued)

Sunnyvale, California 94088

City/State/Zip code

Give us information about your contact person for the
National Environmental Achievement Track Program.

Name Eddie Gamboa

Title EMS Manager

Phone 408 991 4488

Fax 408 991 4003

E-mail eddie.gamboa@philips.com

Why do we need this information?

EPA needs background information on your facility to evaluate your application.

What do you need to do?

- Provide background information on your facility.
- Identify your environmental requirements.



1 What do you do or make at your facility?

It's a semiconductor facility that designs, performs research and development, and testing of integrated circuits. Provide professional, and technical services to other Philips Semiconductors' manufacturing facilities in North America. More information at <http://www.philips.com>

2 List the Standard Industrial Classification (SIC) code(s) or North American Industrial Classification System (NAICS) codes that you use to classify business at your facility.

SIC
CAD 07046 6479

NAICS

3 Does your company meet the Small Business Administration definition of a small business for your sector?

☐ Yes ☒ No

4 How many employees (full-time equivalents) currently work at your facility?

☐ Fewer than 50
☐ 50-99
☐ 100-499
☐ 500-1,000
☒ More than 1,000

5 Does your facility have an EPA ID number(s)?

☒ Yes

☐ No

If yes, list in the right-hand column.

CAD070466479

6 Identify the environmental requirements that apply to your facility. Use the Environmental Requirements Checklist, at the back of the instructions, as a reference. List your requirements to the right **or** enclose a completed Checklist with your application.

See attached checklist

7 Check the appropriate box in the right-hand column.

☐ I've listed the requirements above.

☒ I've enclosed the Checklist with my application.

8 Optional: Is there anything else you would like to tell us about your facility?

This facility was a manufacturing site for Integrated circuit since 1961. The last fabrication area was closed mid last year of 1999. ISO 14001 certified on February 12, 1998. The site currently maintain it's certification with plans to expand to San Jose, California and Tempe, Arizona.

Why do we need this information?

Facilities must have an operating Environmental Management System (EMS) that meets certain requirements.



What do you need to do?

- Confirm that your EMS meets the Achievement Track requirements.
- Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.

1 Check **yes** if your EMS meets the requirements for each element below as defined in the instructions.

a. Environmental policy ☒ Yes

b. Planning ☒ Yes

c. Implementation and operation ☒ Yes

d. Checking and corrective action ☒ Yes

e. Management review ☒ Yes

2 Have you completed at least one EMS cycle (plan-do-check-act)? ☒ Yes

3 Did this cycle include both an EMS and a compliance audit? ☒ Yes

4 Have you completed an objective self-assessment or third-party assessment of your EMS? ☒ Yes

If yes, what method of EMS assessment did you use?

☐ Self-assessment

☐ GEMI

☐ Other

☐ CEMP

☒ Third-party assessment

☒ ISO 14001 Certification

☐ Other

Why do we need this information?

Facilities must show that they are committed to improving their environmental performance. This means that you can describe past achievements and will make future commitments.

What do you need to do?

Refer to the Environmental Performance Table in the instructions to answer questions 1 and 2.

- 1 Describe your past achievements for at least two environmental aspects. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you qualify as a small facility as defined in the instructions, you are required to report past achievement for at least one environmental aspect.

First aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
	Quantity	Units	Quantity	Units
Chemical Usage	\$6.3 per 4" wafer out	Cost per 4" wafer out	\$5.45 in 1999 Not tracking cost per wafer out (no more production)	Cost per 4" wafer out
<p>i. How is the current level an improvement over the previous level?</p> <p>The chemical usage reduction of 14% from 1998 to 1999.</p> <p>ii. How did you achieve this improvement?</p> <p>Implemented some chemical substitution (environmental-friendly), process elimination or changes, extend chemical bath-life (filtration and temperature controlled sinks) and "chemical pour-only by request" procedure..</p>				

Second aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
Electricity	Quantity 45	Units KwH per 4" wafer out	Quantity 38	Units KwH per 4" wafer out
<p>i. How is the current level an improvement over the previous level?</p> <p>A 15.5% electricity usage reduction from 1998 consumption up to 1999.</p>				
<p>ii. How did you achieve this improvement?</p> <p>Boiler replacement with "energy efficient type". Facility was renovated with better heating and cooling equipment, and insulation. Manufacturing furnace equipment to ramp down to lower temperature on standby mode. Process changes to eliminate production testing within 24 hour time limit. Elimination of excess manufacturing equipment.</p>				

- 2 Select at least four environmental aspects (no more than two from any one category) from the Environmental Performance Table in the instructions and then tell us about your future commitments. If you need more space than is provided, attach copies of this section.

Note to small facilities: If you are a small facility, you are required to make commitments for at least two environmental aspects in two different categories.

First aspect you've selected

- a. What is the aspect? Electricity
- b. Is this aspect identified as significant in your EMS? ☒ Yes ☐ No
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.
- ☒ Option A: Absolute value 37 millionKwH / year (Quantity/Units)
- ☐ Option B: In terms of units of production or output (Quantity/Units)

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

- ☒ Option A:
Absolute value 30 million Kwh/year
(Quantity/Units)
- ☐ Option B:
In terms of
units of production (Quantity/Units)
or output

e. How will you achieve this improvement?

Building renovation, low energy lamps utilization, use of natural lighting source and usage meter monitoring,

Second aspect you've selected

a. What is the aspect?

Natural Gas

b. Is this aspect identified as significant in your EMS?

☒ Yes ☐ No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

- ☒ Option A:
Absolute value 400000 Therms per year
(Quantity/Units)
- ☐ Option B:
In terms of
units of production (Quantity/Units)
or output

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

- ☒ Option A:
Absolute value 300000 Therms per year
(Quantity/Units)
- ☐ Option B:
In terms of
units of production (Quantity/Units)
or output

e. How will you achieve this improvement?

Building renovation and use of "energy efficient equipment". Utilization of better heating/cooling equipment and insulations. Eliminate extra equipment.

Third aspect you've selected

- a. What is the aspect? Water
- b. Is this aspect identified as significant in your EMS? ☒ Yes ☐ No
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.
- | | |
|---|--|
| <input checked="" type="checkbox"/> Option A:
Absolute value | 46 million gallons/year |
| <input type="checkbox"/> Option B:
In terms of
units of production
or output | (Quantity/Units)

(Quantity/Units) |
- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.
- | | |
|---|---|
| <input checked="" type="checkbox"/> Option A:
Absolute value | 37 million gallons/year
(Quantity/Units) |
| <input type="checkbox"/> Option B:
In terms of
units of production
or output | (Quantity/Units) |
- e. How will you achieve this improvement? Water conservation program implementation. Rest room sinks and bowls renovations and replacements.

Fourth aspect you've selected

- a. What is the aspect? Solid Waste/Used Equipment
- b. Is this aspect identified as significant in your EMS? ☒ Yes ☐ No
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.
- | | |
|---|---|
| <input checked="" type="checkbox"/> Option A:
Absolute value | 74% Of total Waste generated are recycled
(Quantity/Units) |
| <input type="checkbox"/> Option B:
In terms of
units of production
or output | (Quantity/Units) |
- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.
- | | |
|---|---|
| <input checked="" type="checkbox"/> Option A:
Absolute value | 90% of total solid wastes are re-used or recycled
(Quantity/Units) |
| <input type="checkbox"/> Option B:
In terms of
units of production
or output | (Quantity/Units) |

e. How will you achieve this improvement?

Empowerment to the Philips Semiconductors' Envision Recycling Team. Include "other" recyclable materials into the program. Employee awareness and training. Recycling program information to all employees via intranet website.

Why do we need this information?

Facilities must demonstrate their commitment to public outreach and performance reporting. You should have appropriate mechanisms in place to identify community concerns, to communicate with the public, and to provide information on your environmental performance.



What do you need to do?

- Describe your approach to public outreach.
- List three references who are familiar with your facility.

1 How do you identify and respond to community concerns?

An environmental communication policy for both internal and external inquiries is in-place to uniformly respond to those environmental concerns.

2 How do you inform community members of important matters that affect them?

We send letters of notification to our neighbors.
Attend community meetings if necessary.

3 How will you make the Achievement Track Annual Performance Report available to the public?

- ☒ Website www.sc.philips.com
- ☒ Newspaper
- ☒ Open Houses
- ☐ Other

- 4 Are there any ongoing citizen suits against your facility? ☐ Yes ☒ No

If yes, describe briefly in the right-hand column.

5 List references below

	Organization	Name	Phone number
Representative of a Community/ Citizen Group	Peninsula Industry Business Association	William L. Sanborn	408 374 9565
State/Local Regulator	City of Sunnyvale Department of Public Works	Gail M. Bentley	408 730 7484
Other community/local reference	Locus Technologies	James E. Boarer	(650) 960 1640

On behalf of Philips Semiconductors
[my facility],

I certify that

- I have read and agree to the terms and conditions, as specified in the *National Environmental Achievement Track Program Description* and in the *Application Instructions*;
- I have personally examined and am familiar with the information contained in this Application (including, if attached, the Environmental Requirements Checklist). The information contained in this Application is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete, and I have no reason to believe the facility would not meet all program requirements;
- My facility has an environmental management system (EMS), as defined in the Achievement Track EMS requirements, including systems to maintain compliance with all applicable federal, state, tribal, and local environmental requirements, in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;
- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements, and the facility has corrected all identified instances of potential or actual noncompliance;
- Based on the foregoing compliance assessment and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Achievement Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior facility manager and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is applying to this program.

Signature/Date

Paul K. Feisthamel 9/27/00

Printed Name/Title Paul Feisthamel, Vice President - Tenant and Technical Services

Facility Name Philips Semiconductors

Facility Street Address 811 East Arques Avenue, Sunnyvale, CA 94088

Facility ID Numbers CAD070466479

National Environmental Achievement Track

Environmental Requirements Checklist

The following Checklist is provided to assist facilities in answering Section A, "Tell us about your facility," Question 6. The Checklist is given to help facilities identify the major federal, state, tribal, and local environmental requirements applicable at their facilities. The Checklist is not intended to be an exhaustive list of all environmental requirements that may be applicable at an individual facility.

If you use this Checklist and choose to submit it with your application, fill in your facility information below and enclose the completed Checklist with your application (see instructions).

Facility Name Philips Semiconductors
Facility Location: 811 East Arques Avenue
Facility ID Number(s): CAD 070466479
(attach additional sheets if necessary)

Air Pollution Regulations

1. National Emission Standards for Hazardous Air Pollutants (40 CFR 61)
2. Permits and Registration of Air Pollution Sources
3. General Emission Standards, Prohibitions and Restrictions
4. Control of Incinerators
5. Process Industry Emission Standards
6. Control of Fuel Burning Equipment
7. Control of VOCs
8. Sampling, Testing and Reporting
9. Visible Emissions Standards
10. Control of Fugitive Dust
11. Toxic Air Pollutants Control
12. Vehicle Emissions Inspections and Testing

Check All
That Apply

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Other Federal, State, Tribal or Local Air Pollution Regulations Not Listed Above
(identify)

- | | |
|-----|--------------------------|
| 13. | <input type="checkbox"/> |
| 14. | <input type="checkbox"/> |

Hazardous Waste Management Regulations

1. Identification and Listing of Hazardous Waste (40 CFR 261)
 - Characteristic Waste
 - Listed Waste
2. Standards Applicable to Generators of Hazardous Waste (40 CFR 262)
 - Manifesting

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>

- Pre-transport requirements ☒
- Record keeping/reporting ☒
- 3. Standards Applicable to Transporters of Hazardous Waste (40 CFR 263)
 - Transfer facility requirements ☐
 - Manifest system and record-keeping ☐
 - Hazardous waste discharges ☐
- 4. Standards for Owners and Operators of TSD Facilities (40 CFR 264)
 - General facility standards ☐
 - Preparedness and prevention ☐
 - Contingency plan and emergency procedures ☐
 - Manifest system, Record keeping and reporting ☐
 - Groundwater protection ☐
 - Financial requirements ☐
 - Use and management of containers ☐
 - Tanks ☐
 - Waste piles ☐
 - Land treatment ☐
 - Incinerators ☐
- 5. Interim Status Standards for TSD Owners and Operators (40 CFR 265) ☐
- 6. Interim Standards for Owners and Operators of New Hazardous Waste Land Disposal Facilities (40 CFR 267) ☐
- 7. Administered Permit Program (Part B) (40 CFR 270) ☐

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (identify)

- 8. California Permit By Rule ☒
- 9. ☐

Hazardous Materials Management

- 1. Control of Pollution by Oil and Hazardous Substances (33 CFR 153) ☐
- 2. Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) ☐
- 3. Hazardous Materials Transportation Regulations (49 CFR 172-173) ☒
- 4. Worker Right-to-Know Regulations (29 CFR 1910.1200) ☒
- 5. Community Right-to-Know Regulations (40 CFR 350-372) ☒

Other Federal, State, Tribal or Local Hazardous Materials Management Regulations Not Listed Above (identify)

- 6. Local Hazardous Materials Storage Ordinance ☒
- 7. ☐

Solid Waste Management

- 1. Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR 257) ☐
- 2. Permit Requirements for Solid Waste Disposal Facilities ☐
- 3. Installation of Systems of Refuse Disposal ☐

4. Solid Waste Storage and Removal Requirements ☐
5. Disposal Requirements for Special Wastes ☐

Other Federal, State, Tribal or Local Solid Waste Management Regulations Not Listed Above (identify)

6. ☐
7. ☐

Water Pollution Control Requirements

1. Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112) ☒
2. Designation of Hazardous Substances (40 CFR 116) ☒
3. Determination of Reportable Quantities for Hazardous Substances (40 CFR 117) ☒
4. NPDES Permit Requirements (40 CFR 122) ☒
5. Toxic Pollutant Effluent Standards (40 CFR 129) ☐
6. General Pretreatment Regulations for Existing and New Sources (40 CFR 403) ☐
7. Organic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 414) ☐
8. Inorganic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 415) ☐
9. Plastics and Synthetics Point Source Effluent Guidelines and Standards (40 CFR 416) ☐
10. Water Quality Standards ☒
11. Effluent Limitations for Direct Dischargers ☐
12. Permit Monitoring/Reporting Requirements ☐
13. Classifications and Certifications of Operators and Superintendents of Industrial Wastewater Plants ☐
14. Collection, Handling, Processing of Sewage Sludge ☐
15. Oil Discharge Containment, Control and Cleanup ☐
16. Standards Applicable to Indirect Discharges (Pretreatment) ☐

Other Federal, State, Tribal or Local Water Pollution Control Regulations Not Listed Above (identify)

17. ☐
18. ☐

Drinking Water Regulations

1. Underground Injection and Control Regulations, Criteria and Standards (40 CFR 144, 146) ☐
2. National Primary Drinking Water Standards (40 CFR 141) ☐
3. Community Water Systems, Monitoring and Reporting Requirements (40 CFR 141) ☐
4. Permit Requirements for Appropriation/Use of Water from Surface or Subsurface Sources ☐
5. Underground Injection Control Requirements ☐

6. Monitoring, Reporting and Record keeping Requirements for Community Water Systems ☐

Other Federal, State, Tribal or Local Drinking Water Regulations Not Listed Above(identify)

7. ☐
8. ☐

Toxic Substances

1. Manufacture and Import of Chemicals, Record keeping and Reporting Requirements (40 CFR 704) ☐
2. Import and Export of Chemicals (40 CFR 707) ☐
3. Chemical Substances Inventory Reporting Requirements (40 CFR 710) ☐
4. Chemical Information Rules (40 CFR 712) ☐
5. Health and Safety Data Reporting (40 CFR 716) ☐
6. Pre-Manufacture Notifications (40 CFR 720) ☐
7. PCB Distribution Use, Storage and Disposal (40 CFR 761) ☒
8. Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762) ☐
9. Storage and Disposal of Waste Material Containing TCDD (40 CFR 775) ☐

Other Federal, State, Tribal or Local Toxic Substances Regulations Not Listed Above
(identify)

10. ☐
11. ☐

Pesticide Regulations

1. FIFRA Pesticide Use Classification (40 CFR 162) ☐
2. Procedures for Disposal and Storage of Pesticides and Containers (40 CFR 165) ☐
3. Certification of Pesticide Applications (40 CFR 171) ☐
4. Pesticide Licensing Requirements ☐
5. Labeling of Pesticides ☐
6. Pesticide Sales, Permits, Records, Application and Disposal Requirements ☐
7. Disposal of Pesticide Containers ☐
8. Restricted Use and Prohibited Pesticides ☐

Other Federal, State, Tribal or Local Pesticides Regulations Not Listed Above
(identify)

9. ☐
10. ☐

Environmental Clean-Up, Restoration, Corrective Action

1. Comprehensive Environmental Response, Compensation and Liability Act (Superfund) (identify)
3-Company Clean-up site (TRW-AMD-Signetics) ☒
☐

2. RCRA Corrective Action (identify)

☐
☐

**Other Federal, State, Tribal or Local Environmental Clean-Up, Restoration,
Corrective Action Regulations Not Listed Above (identify)**

3. California Regional Water Quality Control Board Regulations
4.

☒
☐